Appendix 1: Overview of Home-Generated Pharmaceutical Collection Programs Outside of California

International Programs	Canada: Alberta*	British	Nova	Canada: Saskat- chewan*		France : Cyclamed Program	Portugal: Valormed	_	Sweden: Apoteket AB Environmental Program
Sources	1	1	1	1	1	1	1	1	1
							Pharma-		Federal
							ceutical		government.
							companies	Parmaceutical	Apoteket is a
							pay an eco-fee	industry based	national retail
	Mainly						of 0.00504	on vol. of sales,	pharmacy.
	Industry &				Mainly Federal		Euro for each		Also takes meds
	small				Gov't (with	Industry,			•
	provincial			Community		pharmacies,	placed in	stewardship	vets, dentists,
Type of Funding	gov't grants	Industy	Industy	Pharmacies	Industry)	wholesalers	market	org	etc.
Start date	1988	1996	Mid 90s	1997	1999	1993	2001	2003	2070
Population (2006)*	3,300,000	4,300,000	930,000	990,000	20,000,000	63,000,000	10,600,000	45,200,000	9,100,000
Collection point	Pharmacies	Pharmacies	Pharmacies	Pharmacies	Pharmacies	Pharmacies	Pharmacies	Pharmacies	Pharmacies
Total program cost (US \$, 2006)	NA	\$333,606	\$34,808	NA	\$1,144,802	\$3,878,534	NA	NA	\$1,149,775
Cost(\$)/capita (preliminary									
estimate)	NA	\$0.08	\$0.04	NA	\$0.06	\$0.06	NA	NA	\$0.13
Cost (\$)/unit collected	NA	\$0.006/pill	\$.001/pill	NA	NA	0.4 euros/ kilo	NA	NA	1.6 eruo/ kilo
EOL materials management (% of total program cost)									
	NA	NA	NA	NA	NA	63%	NA	NA	NA

Appendix 1: Overview of Home-Generated Pharmaceutical Collection Programs Outside of California

International Programs		British	Nova	Canada: Saskat-		Cyclamed	Portugal: Valormed	Spain Integrated Waste MaNAgement System (SIGRE)	Sweden: Apoteket AB Environmental Program
Environmental									
Product collected (metric tonnes)	37	23	10.6	16.4	NA	13,169	694	2,624	1019
Percent collected (from									
available for collection)	NA	NA	NA	NA	NA	80%	NA	NA	65-75%
Program effectiveness									
Pharmacy Participation									
(Total #)	900	985	259	350	5000	22,500	2,786	20,406	980
Pharmacy Participation									
(Percent)	100	96	100	90	100	85	98.5	100	100
Collection Per Capita						0.21 (0.09			
(kilograms/capita)	0.01	0.005	0.01	0.02	0.017	w/o pkg)	0.054	0.058	0.1
Public									
awareness/participation	NA	NA	NA	NA	60%	77%	NA	NA	43%

^{*} Other Canadian provinces have programs, these four were selected for their performance with one of the following factors: high collection, high collection/capita, or low cost.

Appendix 1 (continued)

State Programs				
	Colorado: Pilot	Iowa: Pilot	Maine: pilot	Washington State: Pilot
Sources	3, 8,9	3, 5, 7	2, 3	3, 4, 5, 10, 11
	USEPA leases 10 collection	State grants to participating		Public and Private Sectors
	boxes; State grants (public			(variety of federal, state
	health and pollution	grant) or consumers		and local govt entities,
	prevention) \$27,000, Local	purchase mail back	USEPA grant for mail back	health coop, and
Type of Funding	water agency	envelopes		pharmacy chain)
Start date	2009	2009		2006
Population (2006)*	4,751,474	2,967,270	1,313,355	6,360,529
Collection Point	Pharmacies & local health			
	agencies	Pharmacies or mail back	Mail Back	Pharmacies
Total program cost (US \$, 2006),	Unclear. Variety of sources.			
except as noted	Some amounts not	4.5= 000 / 0 N	4450,000 / 0	
2 (4)/	specified.	\$165,000 (over 3 years)	\$150,000 (over 2 years)	NA
Cost(\$)/capita	NA	NA	NA	
Cost (\$)/unit sold				\$0.01 to \$0.02 per
				container
Cost (\$)/unit collected			\$18.79/mailer (actual & in-kind	
			costs phase I and II), \$7.50	
			/mailer phase III (longer term),	
Environmental	NA	NA	ave weight of mailer 7 ounces	NA
Product (with its packaging)			4.451	51
	NA	NA	1.15 tons	5 tons
Percent collected (from available for collection)	N/A	NIA	NA.	N/A
Program effectiveness	NA	NA	NA I	NA NA
				E 4 NAVA/D for allitions 1 200
Pharmacy Participation (Total #)	N/A	NIA.		54 MWR facilities, 1,300
Pharmacy Participation (Percent)	NA	NA	NA I	pharmacies
, , , , ,	NA	NA	NA	NA
Collection Per Capita				
(kilograms/capita)	NA	NA	NA	NA
Public awareness/participation	NA	NA	NA	NA

Appendix 1 (continued)

Sources	Type of Resource	Date	Weblink
1. Health Canada			
Environmental Impact Initiative	Report	November 1, 2009	http://www.enviroadvisory.com/pdf/Takeback.pdf
2. EPA website	Executive Summary to		
	ME report	April 1, 2010	http://www.epa.gov/aging/RX-report-Exe-Sum/
	Access to full ME		
	report	April 1, 2010	http://www.surveymonkey.com/s/HSGKBDD
3. US census			http://www.census.gov/popest/states/tables/NST-EST2008-
	Database	2006	<u>01.xls</u>
4. Snohomish County Solid Waste			
Management Division			http://www.productstewardship.us/associations/6596/files/Se
	Presentation	June 30, 1905	go_Jackson_presentation2.ppt
5. Oregon Pharmaceutical Take Back			http://www.oracwa.org/downloads/drugtakeback-
Stakeholder Group	Report	July 1, 2007	<u>rpt_0907.pdf</u>
6. Iowa Pharmacy Association	Frequently Asked		
	Questions	2007	http://www.iarx.org/TakeAway/Default.aspx#FAQ
7. Souix City Journal			http://www.siouxcityjourNAl.com/news/local/article_1fe2192
	Newspaper Article	February 1, 2010	<u>e-93cf-5308-ae24-d1d4ce4b25a0.html</u>
8. Colorado Department of Public			
Health and Environment	Press Release	2009	http://www.cdphe.state.co.us/release/2009/121009.html
9. Colorado Department of Public			http://www.cehaweb.com/documents/MedicationTake-
Health and Environment	Presentation	October 2, 2009	BackPilotProjectCEHAPowerpoint.ppt
10. Northern Light			http://www.cehaweb.com/documents/MedicationTake-
	Newspaper Article	May 24, 2010	BackPilotProjectCEHAPowerpoint.ppt
11. Progress Report for			
Pharmaceuticals from Households: A			http://www.productstewardship.us/associations/6596/files/PH
Return Mechanism (PH:ARM)	Fact Sheet	April 1, 2008	ARMProgressReport2Apr2008.pdf